

***Presentation for the Lake  
Hartwell Association  
October 23rd, 2003***

***Presented by  
Mr. Leroy Crosby, Chief of Plan Formulation  
Savannah District***

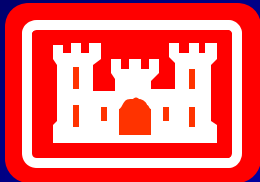


***Comprehensive  
Water Resources Study  
for the  
Savannah River***

***UPDATE***

# ***Savannah River Basin Comprehensive Water Resources Study***

Utilize a “whole-basin” analysis  
to identify and provide recommendations  
for meeting the various water demands  
throughout the basin.



Corps of Engineers, Georgia DNR, South Carolina DNR 2000

# ***Savannah River Basin Comprehensive Water Resources Study***

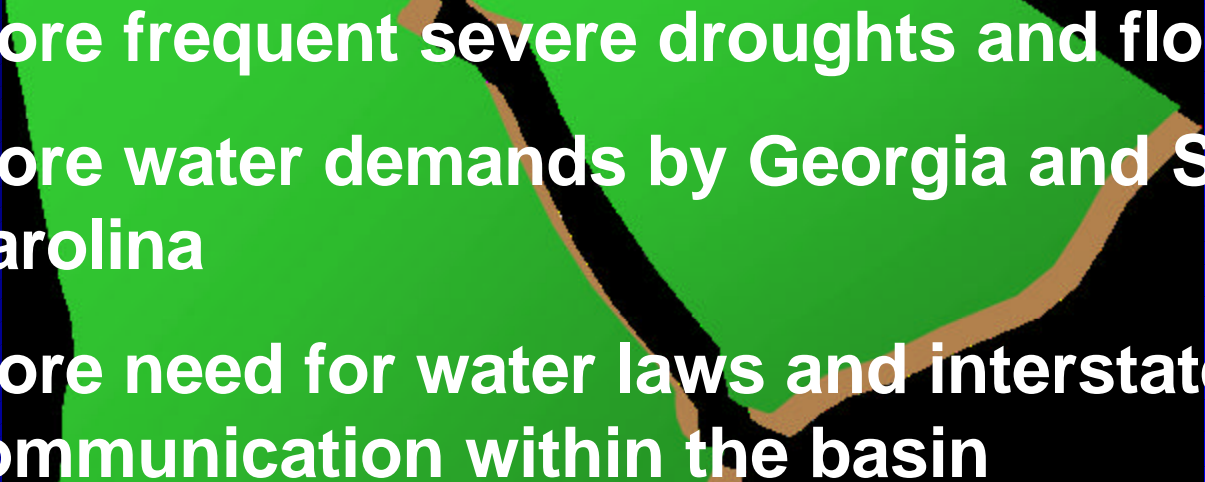
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**Major areas identified for analysis:**

- ◆ **Water Supply Allocations**
- ◆ **Flood Control**
- ◆ **Hydropower Generation**
- ◆ **Water Quality and Flow**
- ◆ **Fish and Wildlife**
- ◆ **Aquatic Plant Control**
- ◆ **Recreation**

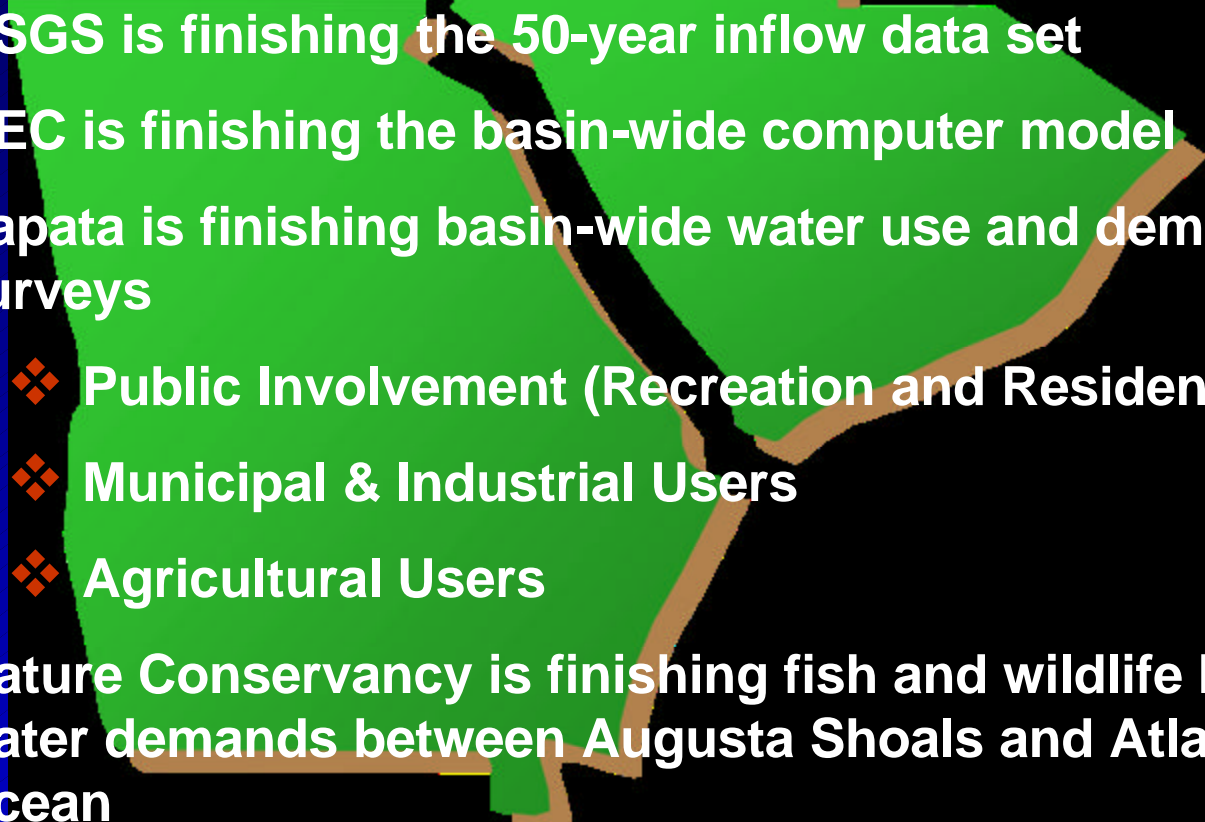
# ***Study Need***

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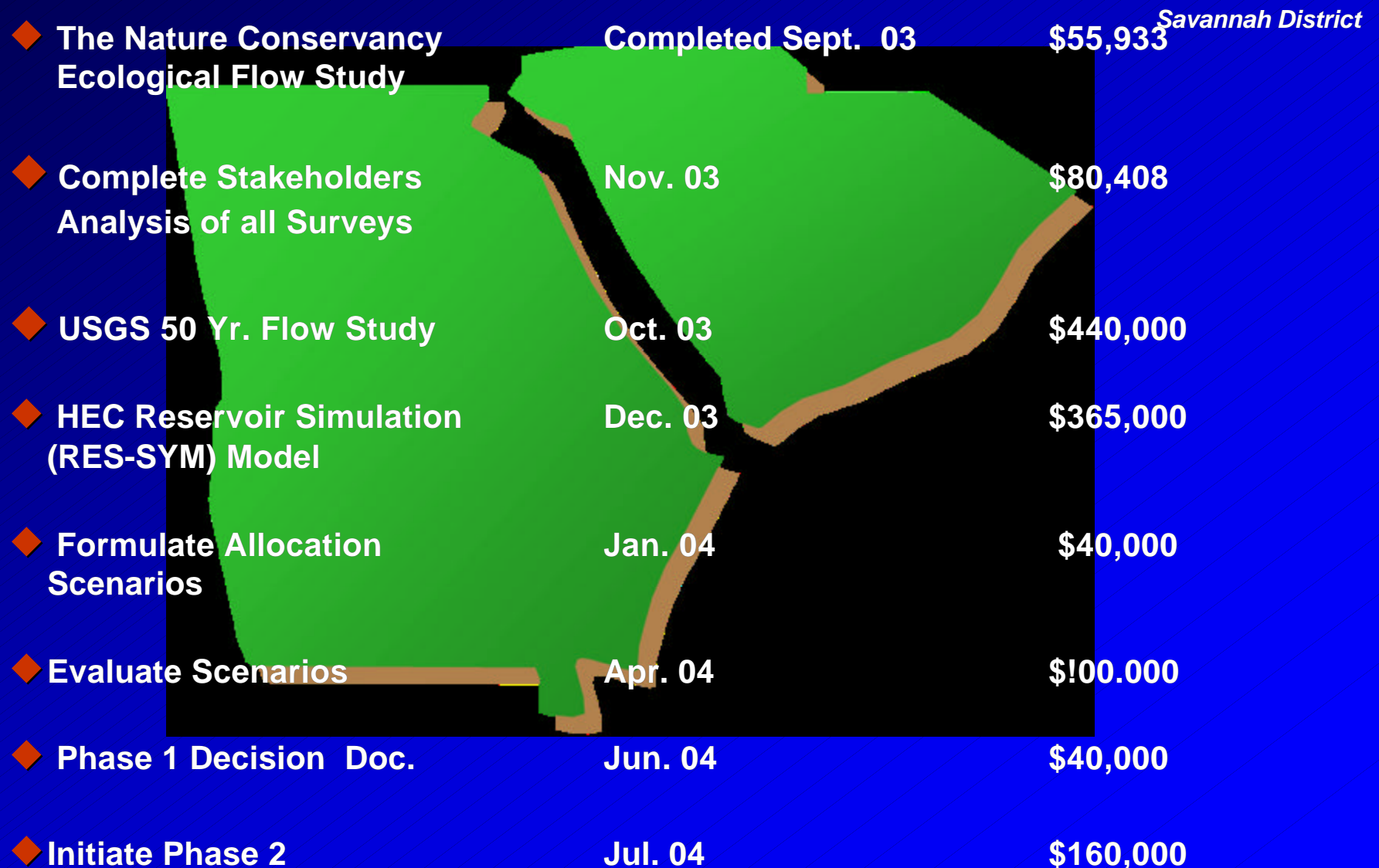
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- ◆ **More frequent severe droughts and floods**
  - ◆ **More water demands by Georgia and South Carolina**
  - ◆ **More need for water laws and interstate communication within the basin**

# Current Status

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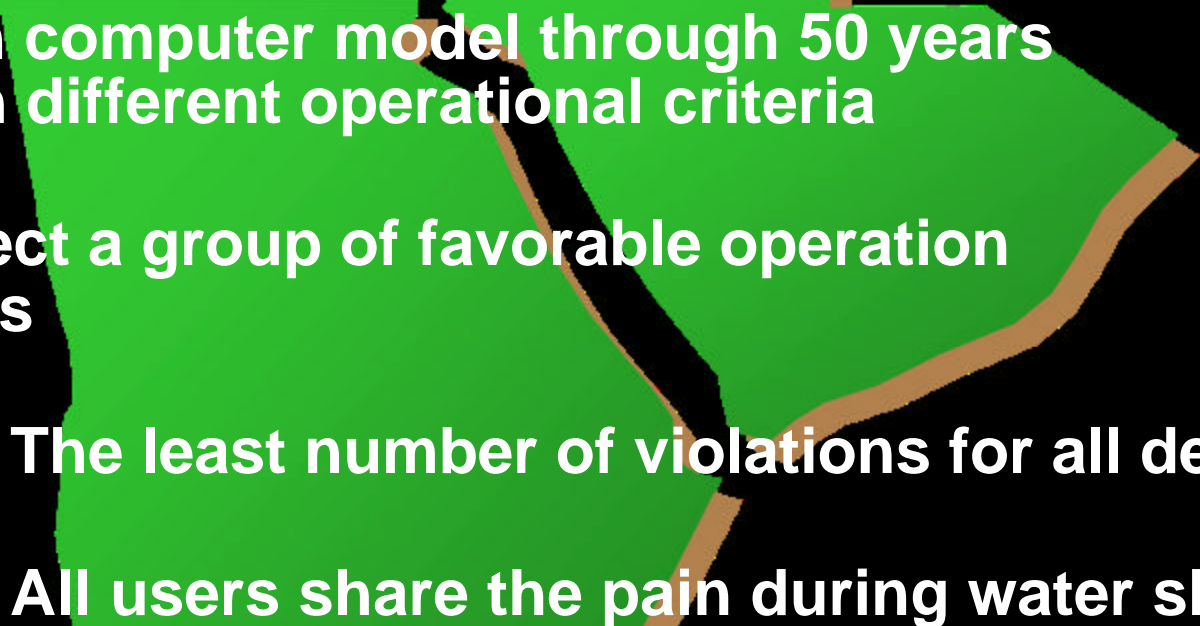
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- A map of the Savannah River basin, showing the river flowing from the north towards the south, where it meets the Atlantic Ocean. The land area is colored green, and the water area is colored blue. The map is overlaid with a black rectangular box containing the text of the list items.
- ◆ USGS is finishing the 50-year inflow data set
  - ◆ HEC is finishing the basin-wide computer model
  - ◆ Zapata is finishing basin-wide water use and demand surveys
    - ❖ Public Involvement (Recreation and Residential)
    - ❖ Municipal & Industrial Users
    - ❖ Agricultural Users
  - ◆ Nature Conservancy is finishing fish and wildlife habitat water demands between Augusta Shoals and Atlantic Ocean

# Products - Milestones - Costs



# Phase 1

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- 
- ◆ Run computer model through 50 years with different operational criteria
  - ◆ Select a group of favorable operation rules
    - ❖ The least number of violations for all demands
    - ❖ All users share the pain during water shortages



# Phase 1

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- ◆ Can we meet present and future demands?
  - ❖ YES? Good
  - ❖ NO? What steps can be taken?
- ◆ Make final recommendations, including conflicts of interest



# ***Savannah River Basin Comprehensive Study Balancing Uses***

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***Wetlands / Habitat***



***Water Supply***



***Aquatic Plant  
Control***



***Hydroelectric  
Power***



***Recreation***



***Flood Control***

